

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Exhibit A

Serial No.: Exhibit A

Filed: Exhibit A

Date: January 10, 2008

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

POWER OF ATTORNEY AND REVOCATION OF PRIOR POWERS

I, David Ripma, Reg. No. 27,672 am an authorized person to sign on behalf of Sharp Labs of America, Inc., having place of business at 5750 NW Pacific Rim Boulevard, Camas, Washington, 98606, assignee of the entire right, title and interest of the United States patents and patent applications, set forth on attached Exhibit A, by assignment recorded in the U.S. Patent and Trademark Office as noted thereon represent that I am empowered to sign on behalf of assignee.

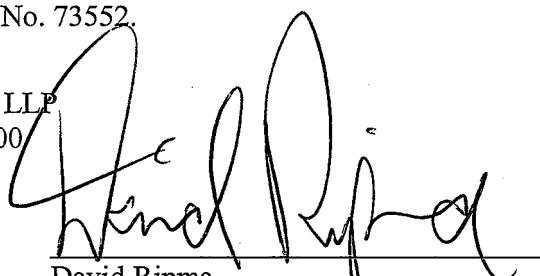
I revoke all power of attorney previously given and appoint the attorneys and agents associated with Customer number 73552 to represent Sharp Labs of America, Inc. before the United States Patent and Trademark Office in connection with patents and patent applications listed on Exhibit A.

Direct all telephone calls to Stephen S. Ford at (503) 224-2170 and send all correspondence to the following address associated with Customer No. 73552.

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Date:

1/23/08



David Ripma
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EXHIBIT A

| DO. NO. | PATENT NUMBER | APP. DATE | APP. NO. | GRANT DATE | TITLE |
|-----------|------------------|-----------|------------|---------------|--|
| 8371-0010 | 6366704 | 11/16/98 | 09/192,831 | 4/2/02 | METHOD AND APPARATUS FOR A DELAY-ADAPTIVE RATE CONTROL SCHEME FOR THE FRAME LAYER |
| 8371-0027 | 6272180 | 4/19/99 | 09/295,233 | 8/7/01 | COMPRESSION AND DECOMPRESSION OF REFERENCE FRAMES IN A VIDEO DECODER |
| 8371-0030 | 6985524 | 9/1/99 | 09/388,831 | 1/10/06 | APPARATUS AND METHOD FOR ADJUSTING REAL TIME VIDEO TO COMPENSATE FOR COLOR BLINDNESS |
| 8371-0033 | 6404443 | 8/25/99 | 09/383,040 | 6/11/02 | THREE-DIMENSIONAL GRAPHICAL USER INTERFACE FOR MANAGING SCREEN OBJECTS |
| 8371-0036 | 6417867 | 5/27/99 | 09/321,519 | 7/9/02 | IMAGE DOWNSCALING USING PERIPHERAL VISION AREA LOCALIZATION |
| 8371-0037 | 6522783 | 11/23/99 | 09/448,061 | 2/18/03 | RE-INDEXING FOR EFFICIENT COMPRESSION OF PALLETIZED IMAGES |
| 8371-0038 | 6535251 | 10/26/99 | 09/427,889 | 3/18/03 | VIDEO ENCODER AND METHOD FOR ADJUSTING QUANTIZATION STEP IN REAL TIME |
| 8371-0044 | 6188520 | 10/29/99 | 09/430,376 | 2/13/01 | LIGHT POLARIZATION CONVERTER |
| 8371-0047 | 6259828 | 1/28/00 | 09/493,410 | 7/10/01 | SPRITE-BASED VIDEO CODING SYSTEM WITH AUTOMATIV SEGMENTATION INTEGRATED INTO CODING AND SPRITE BUILDING PROCESSES |
| 8371-0050 | 6707952 | 5/30/00 | 09/584,036 | 3/16/04 | METHOD FOR REMOVING RINGING ARTIFACTS FROM LOCATIONS NEAR DOMINANT EDGES OF AN IMAGE RECONSTRUCTED AFTER COMPRESSION |
| 8371-0051 | 6462788 | 5/30/00 | 09/584,333 | 10/8/02 | METHOD AND SYSTEM FOR REMOVING COLOR BLEEDING ARTIFACTS BY FILTERING THE CHROMINANCE PLANE OF DECOMPRESSED IMAGES |
| 8371-0052 | 6747762 | 11/5/99 | 09/435,200 | 6/8/04 | METHOD FOR OPTIMIZING COMPRESSION OF SCANNED DATA |
| 8371-0053 | 6226388 | 1/5/99 | 09/225,187 | 5/1/01 | METHOD AND APPARATUS FOR OBJECT TRACKING FOR AUTOMATIC CONTROLS IN VIDEO DEVICES |
| 8371-0054 | 6950130 | 1/5/99 | 09/225,189 | 9/27/05 | METHOD OF IMAGE BACKGROUND REPLACEMENT |

EXHIBIT A

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|-----------|---------------|-----------|------------|------------|--|
| 8371-0055 | 6411740 | 12/22/98 | 09/218,937 | 6/25/02 | METHOD FOR NON-UNIFORM QUANTIZATION IN A RESOLUTION HIERARCHY BY USE OF A NONLINEARITY |
| 8371-0056 | 6993789 | 4/23/99 | 09/298,282 | 1/31/06 | DTV DATA SERVICE APPLICATION AND RECEIVER MECHANISM |
| 8371-0059 | 6671420 | 2/16/99 | 09/250,680 | 12/30/03 | METHOD FOR PROCESSING SATURATED INTERVALS IN VIDEO SEQUENCES |
| 8371-0060 | 6496603 | 2/8/99 | 09/246,263 | 12/17/02 | ENHANCING ERROR DIFFUSION BY USING DIRECTIONAL GUIDED LINE THRESHOLDING |
| 8371-0061 | 6671062 | 2/25/99 | 09/258,684 | 12/30/03 | JOURNALING TECHNIQUE FOR REVERSE ORDER PRINTING |
| 8371-0064 | 6826688 | 3/27/99 | 09/277801 | 11/30/04 | METHOD AND APPARATUS FOR DETERMINING THE IDENTITY OF A DIGITAL PRINTER FROM ITS OUTPUT |
| 8371-0065 | 6342925 | 2/26/99 | 09/259,157 | 1/29/02 | AUTOMATIC AUDIO AND VIDEO PARAMETER ADJUSTMENT |
| 8371-0066 | 6320621 | 3/27/99 | 09/277,800 | 11/20/01 | METHOD OF SELECTING A DIGITAL CLOSED CAPTIONING SERVICE |
| 8371-0069 | 6570668 | 4/26/99 | 09/299,816 | 5/27/03 | METHOD OF MODIFYING PRINTER DRIVER OUTPUT |
| 8371-0071 | 6519654 | 7/7/99 | 09/349,059 | 2/11/03 | METHOD OF DESIGNING AN INTERFACE FOR A REAL-TIME MESSAGING SYSTEM |
| 8371-0072 | 6552823 | 6/1/99 | 09/323,583 | 4/22/03 | ENHANCED ERROR DIFFUSION BY USING PEAK POSITION PROFILES |
| 8371-0073 | 6353686 | 3/5/99 | 09/263,115 | 3/5/02 | METHOD FOR NON-UNIFORM QUANTIZATION IN A RESOLUTION HIERARCHY BY TRANSMISSION OF BREAK POINTS OF A NON-LINEARITY |
| 8371-0077 | 6704792 | 8/10/99 | 09/371,660 | 3/9/04 | SIMPLE NETWORK MANAGEMENT PROTOCOL (SNMP) SUB-AGENT INTERFACE |
| 8371-0078 | 6940876 | 2/28/00 | 09/514,138 | 9/6/05 | SYSTEM TARGET DECODER WITH SECONDARY MULTIPLEXING |
| 8371-0079 | 6476871 | 8/25/99 | 09/382,522 | 11/5/02 | TEXT DISPLAY ON REMOTE DEVICE |
| 8371-0081 | 6658162 | 10/31/99 | 09/417,873 | 12/2/03 | IMAGE CODING METHOD USING VISUAL OPTIMIZATION |
| 8371-0083 | 6671068 | 9/30/99 | 09/408,626 | 12/30/03 | ADAPTIVE ERROR DIFFUSION WITH IMPROVED EDGE AND SHARPNESS PERCEPTION |
| 8371-0084 | 6658484 | 9/23/99 | 09/404,612 | 12/2/03 | MESSAGE CONTROL SYSTEM |

EXHIBIT A

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|-----------|------------------|-----------|------------|---------------|---|
| 8371-0085 | 6556313 | 9/27/99 | 09/405,966 | 4/29/03 | VECTOR METHOD FOR COLOR MISREGISTRATION DETECTION IN IMAGE DATA |
| 8371-0086 | 6477524 | 12/21/99 | 09/468,508 | 11/5/02 | METHOD FOR STATISTICAL TEXT ANALYSIS |
| 8371-0087 | 6441867 | 10/22/99 | 09/426,165 | 8/27/02 | BIT-DEPTH EXTENSION OF DIGITAL DISPLAYS USING NOISE |
| 8371-0089 | 6859228 | 10/18/99 | 09/419,602 | 2/22/05 | LEAST SQUARES METHOD FOR COLOR MISREGISTRATION DETECTION AND CORRECT IN IMAGE DATA |
| 8371-0091 | 6654037 | 11/10/99 | 09/437,983 | 11/25/03 | EMBEDDED WINDOWS IN BACKGROUND IMAGE |
| 8371-0092 | 6848002 | 12/1/99 | 09/452,235 | 1/25/05 | SYSTEM AND METHOD FOR OPTIMAL SELECTION AND PRESENTATION OF STREAMING MEDIA TYPES |
| 8371-0093 | 6765693 | 3/20/00 | 09/527,887 | 7/20/04 | PHOTO QUALITY COLOR PRINTING BY USING LIGHT BLACK INK |
| 8371-0095 | 6833932 | 3/31/00 | 09/540,600 | 12/21/04 | METHOD FOR ELIMINATION OF SPATIAL ARTIFACTS IN DIGITAL IMAGING |
| 8371-0099 | 6622190 | 4/27/00 | 09/564,265 | 9/16/03 | METHOD FOR MODIFYING TASK EXECUTION PRIORITY IN A MULTITASKING WINDOWED OPERATING ENVIRONMENT |
| 8371-0100 | 6646658 | 5/17/00 | 09/574,674 | 11/11/03 | TAGGING DATA FILES WITH APPLICATION INFORMATION |
| 8371-0101 | 6701009 | 6/6/00 | 09/588,848 | 3/2/04 | METHOD OF SEPARATED COLOR FOREGROUND AND BACKGROUND PIXEL IMPROVEMENT |
| 8371-0104 | 7277203 | 9/21/00 | 09/667,964 | 10/2/07 | METHOD OF IMPROVING START-UP BEHAVIOR FOR COLOR ERROR DIFFUSION DIGITAL HALFTONING |
| 8371-0106 | 7075676 | 12/19/00 | 09/741,199 | 7/11/06 | METHOD FOR ATTACHING AS A BARCODE TO THE PRINTOUT |
| 8371-0108 | 6798543 | 09/31/00 | 09/660,754 | 9/28/04 | METHOD AND APPARATUS FOR COMPRESSION AND DECOMPRESSION OF HALFTONED IMAGES |
| 8371-0111 | 6894791 | 8/25/00 | 09/649,433 | 5/17/05 | METHOD AND APPARATUS FOR AUTOMATIC PAPER PREVIEW |
| 8371-0112 | 6947159 | 8/24/00 | 09/645,868 | 9/20/05 | USING A PAPER PREVIEW IN DOCUMENT MANAGEMENT APPLICATIONS |

EXHIBIT A

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|-----------|------------------|-----------|------------|---------------|--|
| 8371-0119 | | 3/30/01 | 09/823,511 | | DEVICES, SOFTWARES AND METHODS FOR RESCHEDULING MULTI-PARTY SESSIONS UPON PREMATURE TERMINATION OF SESSION |
| 8371-0120 | 6995866 | 3/14/01 | 09/808,862 | 2/7/06 | METHOD AND APPARATUS FOR BACKGROUND ADJUSTMENT IN COLOR REPRODUCTION DEVICES |
| 8371-0122 | 7006255 | 3/29/01 | 09/823,027 | 2/28/06 | ADAPTIVE IMAGE FILTERING BASED ON A DISTANCE TRANSFORM |
| 8371-0123 | 7219168 | 2/13/01 | 09/784,227 | 5/15/07 | METHOD AND SYSTEM FOR A GENERIC DOCUMENT PROCESSING DEVICE CLIENT |
| 8371-0124 | 6865298 | 3/30/01 | 09/823,399 | 3/8/05 | COMPOUND DOCUMENT COMPRESSION BASED UPON NEIGHBORING PIXELS |
| 8371-0125 | 6846688 | 3/30/01 | 09/823,521 | 1/25/05 | METHOD OF MANUFACTURING A LIQUID CRYSTAL DISPLAY DEVICE WITH A MULTI-LAYER INTERLAYER INSULATOR |
| 8371-0128 | 6915019 | 3/30/01 | 09/823,497 | 7/5/05 | METHOD FOR COMBINING VECTOR-QUANTIZATION DECODING WITH COLOR TRANSFORM OR HALFTONING OR BOTH |
| 8371-0129 | 6900083 | 8/31/01 | 09/945,063 | 5/31/05 | METHOD OF FORMING MULTI-LAYERS FOR A THIN FILM TRANSISTOR (TFT) AND THE DEVICE FORMED THEREBY |
| 8371-0135 | 6944225 | 7/24/01 | 09/912,799 | 9/13/05 | RESOLUTION -SCALABLE VIDEO COMPRESSION |
| 8371-0136 | 6807312 | 7/13/01 | 09/905,565 | 10/19/04 | ROBUST CODEBOOKS FOR VECTOR QUANTIZATION |
| 8371-0137 | 6870581 | 10/30/01 | 10/003,947 | 3/22/05 | SINGLE PANEL COLOR VIDEO PROJECTION DISPLAY USING RELECTIVE BANDED COLOR FALLING-RASTER ILLUMINATION |
| 8371-0144 | | 10/19/01 | 10/055,207 | | MULTI-LAYER DATA TRANSMISSION SYSTEM |
| 8371-0147 | | 2/1/02 | 10/062,387 | | BIT-DEPTH EXTENSION WITH MODELS OF EQUIVALENT INPUT VISUAL NOISE |
| 8371-0152 | 7256901 | 10/2/02 | 10/269,378 | 8/14/07 | PRINTER DRIVER CUSTOMIZATION USING INCREMENTAL CUSTOM PRINT PROCESSOR |
| 8371-0154 | | | | | INFRINGEMENT STUDY OF US PATENT NO. 5,077,582 |

EXHIBIT A

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| 8371-0158 | 7272779 | 3/31/03 | 10/404,795 | 9/18/07 | SYNCHRONIZED MUSICAL SLIDESHOW LANGUAGE |
| 8371-0160 | | 3/31/03 | 10/404,986 | | TRANSMITTING DATA ON SCHEDULED CHANNELS IN A CENTRALIZED NETWORK |
| 8371-0161 | | 3/31/03 | 10/404,974 | | RELAY TRANSMISSION OF DATA IN A CENTRALIZED NETWORK |
| 8371-0162 | | 9/15/03 | 10/663,406 | | CONNECTION MANAGEMENT IN A CENTRALIZED COMMUNICATION SYSTEM |
| 8371-0166 | | 1/27/04 | 10/765,504 | | METHOD FOR REMOVING RINGING ARTIFACTS FROM LOCATION NEAR DOMINANT EDGES OF AN IMAGE RECONSTRUCTED AFTER COMPRESSION |
| 8371-0167 | | 1/6/04 | 10/753,934 | | TELEVISION REMOTE CONTROL SYSTEM AND METHOD WITH ALPHANUMERIC INPUT |
| 8371-0172 | 6956511 | 10/7/04 | 10/961,453 | 10/18/05 | MULTI-SYMBOL/COEFFICIENT DECODE OPERATION FOR HUFFMAN CODES |
| 8371-0173 | | 8/3/04 | 10/911,032 | | IMPROVED FILE PATH IDENTIFICATION AND DISPLAY |
| 8371-0177 | | 10/15/04 | 10/966,277 | | METHOD AND APPARATUS FOR FINDING APPLICATIONS AND RELATING ICONS LOADED ON A TELEVISION |
| 8371-0178 | | 1/6/04 | 10/976,498 | | METHOD AND APPARATUS FOR SYNCHRONIZATION OF PLURAL MEDIA STREAMS |
| 8371-0180 | | 10/7/04 | 10/961,285 | | SYSTEM FOR REMOTE SHARE ACCESS |
| 8371-0181 | | 10/7/04 | 10/960,997 | | INTELLIGENT DISCOVERY OF SHARES |
| 8371-0182 | | 10/7/04 | 10/962,814 | | TELEVISION WITH APPLICATION/STREAM- SPECIFIABLE LANGUAGE SELECTION |
| 8371-0183 | | 10/20/04 | 10/970,407 | | UNIVERSAL PLUG AND PLAY REMOTE AUDIO MIXER |
| 8371-0184 | | 5/12/06 | 11/382,989 | | DUAL-PLANE GRAPHICS |
| 8371-0185 | | 10/29/04 | 10/977,213 | | INTERACTIVE TELEVISION HOT KEY MANAGER |
| 8371-0186 | | 8/3/04 | 10/910,932 | | INTERACTIVE TELEVISION ALERT MANAGER |
| 8371-0187 | 7167418 | 10/29/04 | 10/977,465 | 1/23/07 | TELEVISION INCLUDING A TIMER |
| 8371-0188 | | 10/29/04 | 10/976,385 | | OPERATING MODES FOR A PERSONAL VIDEO RECORDER |

EXHIBIT A

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| 8371-0191 | | 10/29/04 | 10/976,388 | | METHOD AND APPARATUS FOR UPGRADING A TELEVISION SYSTEM |
| 8371-0192 | | 10/17/05 | 11/252,423 | | OPERATION MODES FOR A PERSONAL VIDEO RECORDER USING DYNAMICALLY GENERATED TIME STAMPS |
| 8371-0195 | | 7/29/04 | 10/909,221 | | METHOD AND APPARATUS FOR HANDLING DIFFERENT PRINT DATA FORMATS |
| 8371-0196 | 7251052 | 6/15/04 | 10/869/792 | 7/31/07 | METHOD AND APPARATUS FOR SELECTING JOB CONTROL DEVICE PROFILES |
| 8371-0197 | | 9/14/04 | 10/941,142 | | CONTINUOUS RASTER IMAGE PROCESSING CONTROL ACROSS PRINT JOBS |
| 8371-0198 | | 6/15/04 | 10/869,793 | | METHOD AND APPARATUS FOR SELECTING PRINTING DEVICES ACCORDING TO RESOURCE AVAILABILITY |
| 8371-0199 | | 6/16/04 | 10/870,595 | | DEVICE MANAGEMENT SYSTEM AND METHOD |
| 8371-0201 | | 11/14/05 | 11/274,694 | | METHOD AND APPARATUS FOR ADAPTIVE BUFFERING |
| 8371-0202 | | 12/20/05 | 11/313,553 | | METHOD AND APPARATUS FOR DYNAMICALLY ADJUSTING QUANTIZATION OFFSET VALUES |
| 8371-0203 | | 4/13/05 | 11/105,729 | | METHOD AND APPARATUS FOR CONTROLLING LOOP FILTERING OR POST FILTERING IN BLOCK BASED MOTION COMPENSATIONED VIDEO CODING |
| 8371-0204 | | 5/26/05 | 11/139,963 | | METHOD AND APPARATUS FOR ADAPTIVE UP-SCALING FOR SPATIALLY SCALABLE CODING |
| 8371-0211 | | 1/12/04 | 10/755,637 | | NONVOLATILE SOLID STATE ELECTRO-OPTIC MODULATOR |
| 8371-0212 | | 5/12/06 | 11/383,183 | | METHOD AND APPARATUS FOR PROVIDING FEEDS TO USERS |
| 8371-0213 | | 5/10/06 | 11/382,665 | | METHOD AND APPARATUS FOR COMMUNICATING POPULARITY RATINGS TO USERS |

EXHIBIT A

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|-----------|------------------|-----------|------------|---------------|--|
| 8371-0215 | | 12/11/06 | 11/609,305 | | INTEGRATED PAPER AND COMPUTER- BASED TESTING ADMINISTRATION SYSTEM |
| 8371-0216 | | 11/22/06 | 11/562,815 | | INTELLIGENT PAGE BUFFER ALLOCATION |
| 8371-0218 | | 2/13/07 | 11/674,616 | | RASTER OPERATION TABLE CONVERSION FOR COLOR SPACES |
| 8371-0219 | | 2/12/07 | 11/674,120 | | GAMUT MAPPING FOR PRINTER COLOR RENDERING |
| 8371-0220 | | 2/16/07 | 11/676,259 | | COLOR INFORMATION ENCODING IN MONOCHROME PRINTING |
| 8371-0221 | | 4/16/07 | 11/735,949 | | TELEVISION HAVING A JAVA ENGINE AND REMOVABLE DEVICE PORT |
| 8371-0223 | | 5/25/07 | 11/754,260 | | MULTI-DEPTH ERROR DIFFUSION FOR THE REPRODUCTION OF COLOR OR MONOCHROME IMAGES |
| 8371-1000 | | 9/8/04 | 10/935,763 | | COLOR ERROR DIFFUSION METHOD |